

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Spring 2019 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0007

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection
Reports may effect overall annual rating.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2019 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0007

Waterway			Bank	Unit Miles
Unit No. 01 Feather River			Right	11.90
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/4/2019 - 4/4/2019			
DWR Inspector	Sterling York			
Accompanied By	Shawn Freitag Sutter Maintenance Yard			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	04/04/2019 04/04/2019	Sterling York

LM Start		Rating **	A	Issue No.	1
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_MA0007_01_s_2013_1				
Comment Code					
Inspector Comment					
New O&M manuals were given to the LMA now that construction is complete. The O&M manuals are located at the Sutter Maintenance Yard.					

No Photos

LM Start		Rating **	A	Issue No.	3
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_MA0007_01_s_2013_3				
Comment Code					
Inspector Comment					
Emergency supplies and equipment are stored at the Sutter Maintenance Yard.					

No Photos

LM Start		Rating **	A	Issue No.	4
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_MA0007_01_s_2013_4				
Comment Code					
Inspector Comment					
Sutter Maintenance Yard employees attend the annual Flood Fight class put on by DWR.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	04/04/2019 04/04/2019	Sterling York

LM Start	0.00	Rating **	A	Issue No.	10
LM End	11.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.310938 °	39.439672 °
				-121.637634 °	-121.641504 °
DWR ID	DWR_MA0007_01_s_2019_10				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation is well maintained, Spring 2019.					

Photo 1 of 1 : SP_2019_MA0007_200_10_20190409_00028.jpg



View looking upstream landside at the well maintained vegetation alongside the irrigation ditch, Spring 2019.

LM Start	0.00	Rating **	A	Issue No.	11
LM End	11.89	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.310938 °	39.439672 °
				-121.637634 °	-121.641504 °
DWR ID	DWR_MA0007_01_s_2019_11				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation is well maintained, Spring 2019.					

Photo 1 of 1 : SP_2019_MA0007_200_11_20190409_00029.jpg



View looking upstream waterside at the well maintained vegetation and re-grading of the levee crown, Spring 2019.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	04/04/2019 04/04/2019	Sterling York

LM Start	0.31	Rating **	N	Issue No.	69
LM End	0.37	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.314991 °	39.315693 °
				-121.635038 °	-121.634459 °
DWR ID	DWR_MA0007_01_s_2016_69				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
Several tree stumps at levee toe still exist Fall 2018.					

Photo 1 of 1 : SP_2019_MA0007_200_69_20190305_00009.jpg



View looking downstream of several tree stumps at the levee toe on the waterside.

LM Start	0.56	Rating **	A/W	Issue No.	68
LM End	0.56	Issue Type +	Ob	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.317974 °	39.317974 °
				-121.632542 °	-121.632542 °
DWR ID	DWR_MA0007_01_s_2016_68				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Eroding slope due to irrigation ditch on landside slope has been repaired but should be monitored, Fall 2018.					

Photo 1 of 2 : SP_2019_MA0007_200_68_20190305_00007.jpg



View of repair to the erosion site, Fall 2018.

LM Start	0.56	Rating **	A/W	Issue No.	68 (cont)
LM End	0.56	Issue Type +	Ob	Location *	LS

Photo 2 of 2 : SP_2019_MA0007_200_68_20190305_00008.jpg



View of repair to the erosion site, Fall 2017.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	04/04/2019 04/04/2019	Sterling York

LM Start	0.92	Rating **	C	Issue No.	67
LM End	0.92	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.323118 °	39.323118 °
				-121.632205 °	-121.632205 °
DWR ID	DWR_MA0007_01_s _ 2016_67				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
The black berry bushes are continued to be sprayed and maintained at the levee toe and are over 20 feet from the levee crown, Spring 2019.					

No Photos

LM Start	1.21	Rating **	C	Issue No.	33
LM End	1.21	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.327187 °	39.327187 °
				-121.632395 °	-121.632395 °
DWR ID	DWR_MA0007_01_s _ 2012_33				
Comment Code					
BU : Building					
Inspector Comment					
A permit was found for this residence. PN9040.					

No Photos

LM Start	1.54	Rating **	M	Issue No.	12
LM End	1.54	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.331845 °	39.331845 °
				-121.633220 °	-121.633220 °
DWR ID	DWR_MA0007_01_s _ 2019_12				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove prunings from levee slope, Spring 2019.					

Photo 1 of 1 : SP_2019_MA0007_200_12_20190409_00030.jpg



View looking upstream waterside of prunings placed on the levee slope, Spring 2019.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	04/04/2019 04/04/2019	Sterling York

LM Start	1.55	Rating **	U	Issue No.	70
LM End	1.55	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.331934 °	39.331934 °
				-121.633246 °	-121.633246 °
DWR ID	16928				

Comment Code

Inspector Comment

FS_ID:53989
DS_ID:16928
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 05/08/2019 LMA Supervisor, Shawn Freitag, has completed a temporary repair to prevent water from flowing from LS irrigation ditch to WS. Burrow hole on LS has been plugged and concrete bags have been placed to prevent water from entering the pipe and causing further damage to the pipe section through levee. Crossing will continued to be monitored by LMA. Need to coordinate with DWR DMP to address permanent solution for abandoned crossing. (O. Magana - DWR UCIP) 05/07/2019 DWR UCIP was notified by LMA Supervisor, Shawn Freitag, of pipe leak observed on LS and causing flooding to WS. Burrow hole is allowing flow to enter pipe. Hole present on pipe section near the concrete headwall. Erosion (sloughing) observed on LS slope. Pipe section tied to WS concrete box that runs parallel to levee was flooding Kiwi Orchard. Section of concrete distribution box was removed to allow for proper drainage and prevent flooding to Kiwi Orchard. Measures by LMA Supervisor are being pursued to stop flow through pipe to prevent further erosion damage through the levee (damage identified during DWR DMP Phase 1 internal video inspection). Record has been updated to reflect the DMP Phase 1 inspection report, crossing has been upgraded from Non-Urgent to Urgent based on the condition of the pipe through the levee. (O. Magana - DWR UCIP)12/07/2018 Encroachment owner information: Sukhraj Singh Pamma, 9850 Sheldon Avenue, Live Oak, CA 95953-9784, 1-530-695-2490. The CVFPB sent an encroachment violation notice on August 16, 2011 to Mr. and Ms. Ratana. Information obtained from the Levee_Encroachment_listing_11288.pdf which was received from SBFCA. Need to coordinate with CVFPB to determine status of permit. (O. Magana - DWR UCIP) 08/09/2017 Crossing is still present, no modifications were made to this crossing. Crossing still appears to be abandoned and not in use, recommend contacting owner to determine status of crossing. This pipe was not part of the Feather River West Levee Improvements, Project D. Pipe is located outside the project limits. Project Improvements began at Station (Sta) 1765+00 (MA0007 about LM 1.73) to Sta 2303+50 (ST0005 about LM 1.23), refer to record drawings for the Feather River West Levee Improvement Plans Station 1765+00 to 2368+26, Project D details. (DWR UCIP - O. Magana)08/02/2017 Unknown if crossing was modified, not shown in record drawings. (DWR UCIP - O. Magana) 05/16/2016 Feather River West Levee Improvement Project--Levee currently under construction.06/10/2015 Same as last inspection.12/29/2014 Same as last inspection.05/19/2014 Same as last inspection.11/06/2013 Same as last inspection.05/13/2013 SBFCA project recommends replacing in accordance with title

Photo 1 of 3 : UCIP_SP_2019_53989_79201.jpg



LS view: Internal view of pipe condition during DMP Phase 1 Inspection.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	04/04/2019 04/04/2019	Sterling York

23.05/10/2013 Same as last inspection. LS scour behind structure needs to be repaired. 10/31/2012 crossing appears abandoned, slide gate is missing on landward side; wood frame remains on LS; scour hole present on LS, 3 feet by 3 feet, near wood frame. (DWR UCIP - O. Magana)

FIELD_STRUCT_DESC: *ABANDONED* 12-inch corrugated metal drainage pipe through the levee, 8.2 feet below the crown. Slide gate on the landside (LS) is no longer present. Concrete "U" headwall at the waterside (WS) toe. Irrigation ditch located on the LS. [Additional Reference(s): DWR Levee Log, 2005]
FS Date: 5/7/2019 12:40:00 PM

LM Start	1.55	Rating **	U	Issue No.	70 (cont)
LM End	1.55	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2019_53989_79230.jpg



LS view: section of levee has slipped at pipe crossing.

LM Start	1.55	Rating **	U	Issue No.	70 (cont)
LM End	1.55	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2019_53989_79229.jpg



LS view: hole visible on LS, appears to be linked to burrow hole that is allowing flow to go into pipe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	04/04/2019 04/04/2019	Sterling York

LM Start	1.55	Rating **	A/W	Issue No.	9
LM End	1.71	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			39.332000 °	39.334240 °
				-121.633178 °	-121.633908 °
DWR ID	DWR_MA0007_01_f_2018_9				
Comment Code					
Inspector Comment					
2017 Site ID: FHR 47.5 R					
Status: Eroding					
2017 Field Notes: Vertical face into the levee prism, huge eddy.					
Site History: 2011 - The toe of the levee has been excavated by the land owner. Small holes throughout the site have been filled with a plaster like substance. Large canal on landside slope and over the levee toe.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	04/04/2019 04/04/2019	Sterling York

LM Start	1.71	Rating **	M	Issue No.	71
LM End	1.71	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.334294 °	39.334294 °
				-121.634008 °	-121.634008 °
DWR ID	20816				

Comment Code

Inspector Comment

FS_ID:53948
DS_ID:20816
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 05/07/2019 (O. Magana - DWR UCIP)12/07/2018 New encroachment owner information: Sukhraj Singh Pamma, 9850 Sheldon Avenue, Live Oak, CA 95953-9784, 1-530-695-2490. Information obtained from the Levee_Encroachment_listing_11288.pdf received from SBFCA. The permit listed in the pdf file is 11987. This permit was issued to the Cox Brothers in 1977. Need to have new owner apply for Permit Name Change with the CVFPB. (O. Magana - DWR UCIP)
08/09/2017 It appears that this pipe is used to water the orchard located on the WS. Dense vegetation present along the WS slope, recommend clearing vegetation to allow for proper inspection of levee slope. No permit has been identified since 2012. (DWR UCIP - O. Magana)08/02/2017 After reviewing record drawings it appears this crossing has remained. This pipe was not part of the Feather River West Levee Improvements, Project D. Pipe is located outside the project limits. Project Improvements began at Station (Sta) 1765+00 (MA0007 about LM 1.73) to Sta 2303+50 (ST0005 about LM 1.23), refer to record drawings for the Feather River West Levee Improvement Plans Station 1765+00 to 2368+26, Project D details. (DWR UCIP - O. Magana)
05/16/2016 Feather River West Levee Improvement Project--Levee currently under construction.06/10/2015 Crossing has been modified since last inspection. 3' black plastic pipe is now running through the metal pipe and the difference was capped and welded. 12/29/2014 Same as last inspection.05/19/2014 Same as last inspection.11/06/2013 Same as last inspection.05/13/2013 SBFCA project recommends removal. Permit number and owner in detailed report book.05/07/2013 Same as last inspection. Recommend finding owner.10/30/2012 Crossing was installed about 1 foot deep--need permit authorizing wrk. (DWR UCIP - O. Magana) FIELD_STRUCT_DESC: 12-inch steel irrigation pipe through the levee, 1 foot below the crown. Crossing on the landside (LS) is attached to a weir above ground. Siphon breaker located on the waterside (WS). No opening on the WS. No permit has been identified since crossing was field discovered in 2012. (12-inch pipe across the berm, levee, and Sutter-Butte Canal was authorized under Permit 11987, 1977 - Cox Brothers). [Additional Reference(s): Sutter Butte Flood Control Agency (SBFCA) Feather River West Levee Project, Volume 4 of 6 (Project D) Feather River West Levee Improvement Plans Sta 1765+00 to 2368+26, 2016, Volume 4-SBFCA_Record_Drawings_Project D_2017.05.16.pdf, Drawing No. C-101].
FS Date: 5/7/2019 12:40:40 PM

Photo 1 of 3 : UCIP_SP_2019_53948_77330.jpg



LS view: pipe visible along LS canal.

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
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Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	04/04/2019 04/04/2019	Sterling York

LM Start	1.71	Rating **	M	Issue No.	71 (cont)
LM End	1.71	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.334294 °	39.334294 °
				-121.634008 °	-121.634008 °
DWR ID	20816				

Comment Code

Inspector Comment

FS_ID:53948
DS_ID:20816
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 05/07/2019 (O. Magana - DWR UCIP)12/07/2018
New encroachment owner information: Sukhraj Singh Pamma, 9850 Sheldon Avenue, Live Oak, CA 95953-9784, 1-530-695-2490.
Information obtained from the Levee_Encroachment_listing_11288.pdf received from SBFCA. The permit listed in the pdf file is 11987. This permit was issued to the Cox Brothers in 1977. Need to have new owner apply for Permit Name Change with the CVFPB. (O. Magana - DWR UCIP)
08/09/2017 It appears that this pipe is used to water the orchard located on the WS. Dense vegetation present along the WS slope, recommend clearing vegetation to allow for proper inspection of levee slope. No permit has been identified since 2012. (DWR UCIP - O. Magana)08/02/2017 After reviewing record drawings it appears this crossing has remained. This pipe was not part of the Feather River West Levee Improvements, Project D. Pipe is located outside the project limits. Project Improvements began at Station (Sta) 1765+00 (MA0007 about LM 1.73) to Sta 2303+50 (ST0005 about LM 1.23), refer to record drawings for the Feather River West Levee Improvement Plans Station 1765+00 to 2368+26, Project D details. (DWR UCIP - O. Magana)
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FS Date: 5/7/2019 12:40:40 PM

Photo 2 of 3 : UCIP_SP_2019_53948_77331.jpg



Overview of levee crown at crossing looking downstream.

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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LM Start	1.71	Rating **	M	Issue No.	71 (cont)
LM End	1.71	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.334294 °	39.334294 °
				-121.634008 °	-121.634008 °
DWR ID	20816				

Comment Code

Inspector Comment

FS_ID:53948
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EP_NO: N/A
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UCIP Comments: 05/07/2019 (O. Magana - DWR UCIP)12/07/2018 New encroachment owner information: Sukhraj Singh Pamma, 9850 Sheldon Avenue, Live Oak, CA 95953-9784, 1-530-695-2490. Information obtained from the Levee_Encroachment_listing_11288.pdf received from SBFCA. The permit listed in the pdf file is 11987. This permit was issued to the Cox Brothers in 1977. Need to have new owner apply for Permit Name Change with the CVFPB. (O. Magana - DWR UCIP)
08/09/2017 It appears that this pipe is used to water the orchard located on the WS. Dense vegetation present along the WS slope, recommend clearing vegetation to allow for proper inspection of levee slope. No permit has been identified since 2012. (DWR UCIP - O. Magana)08/02/2017 After reviewing record drawings it appears this crossing has remained. This pipe was not part of the Feather River West Levee Improvements, Project D. Pipe is located outside the project limits. Project Improvements began at Station (Sta) 1765+00 (MA0007 about LM 1.73) to Sta 2303+50 (ST0005 about LM 1.23), refer to record drawings for the Feather River West Levee Improvement Plans Station 1765+00 to 2368+26, Project D details. (DWR UCIP - O. Magana)
05/16/2016 Feather River West Levee Improvement Project--Levee currently under construction.06/10/2015 Crossing has been modified since last inspection. 3' black plastic pipe is now running through the metal pipe and the difference was capped and welded. 12/29/2014 Same as last inspection.05/19/2014 Same as last inspection.11/06/2013 Same as last inspection.05/13/2013 SBFCA project recommends removal. Permit number and owner in detailed report book.05/07/2013 Same as last inspection. Recommend finding owner.10/30/2012 Crossing was installed about 1 foot deep--need permit authorizing wrk. (DWR UCIP - O. Magana) FIELD_STRUCT_DESC: 12-inch steel irrigation pipe through the levee, 1 foot below the crown. Crossing on the landside (LS) is attached to a weir above ground. Siphon breaker located on the waterside (WS). No opening on the WS. No permit has been identified since crossing was field discovered in 2012. (12-inch pipe across the berm, levee, and Sutter-Butte Canal was authorized under Permit 11987, 1977 - Cox Brothers). [Additional Reference(s): Sutter Butte Flood Control Agency (SBFCA) Feather River West Levee Project, Volume 4 of 6 (Project D) Feather River West Levee Improvement Plans Sta 1765+00 to 2368+26, 2016, Volume 4-SBFCA_Record_Drawings_Project D_2017.05.16.pdf, Drawing No. C-101].
FS Date: 5/7/2019 12:40:40 PM

Photo 3 of 3 : UCIP_SP_2019_53948_77332.jpg



WS view: dense vegetation along WS slope.

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	04/04/2019 04/04/2019	Sterling York

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	04/04/2019 04/04/2019	Sterling York

LM Start	1.72	Rating **	M	Issue No.	72
LM End	1.72	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.334336 °	39.334336 °
				-121.634046 °	-121.634046 °
DWR ID	16927				

Comment Code

Inspector Comment

FS_ID:53949
DS_ID:16927
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 05/07/2019 (O. Magana - DWR UCIP)12/07/2018 Encroachment owner information: Sukhraj Singh Pamma, 9850 Sheldon Avenue, Live Oak, CA 95953-9784, 1-530-695-2490. Information obtained from the Levee_Encroachment_listing_11288.pdf which was received from SBFCA. Need to coordinate with CVFPB to determine status of permit. (O. Magana - DWR UCIP)
08/09/2017 Crossing is still present, unable to confirm if crossing is still in use. Recommend contacting owner to determine status, remove dense vegetation blocking outlet, and to obtain permit authorizing crossing. (DWR UCIP - O. Magana) 08/02/2017 After reviewing record drawings it appears this crossing has remained. This pipe was not part of the Feather River West Levee Improvements, Project D. Pipe is located outside the project limits. Project Improvements began at Station (Sta) 1765+00 (MA0007 about LM 1.73) to Sta 2303+50 (ST0005 about LM 1.23), refer to record drawings for the Feather River West Levee Improvement Plans Station 1765+00 to 2368+26, Project D details. (DWR UCIP - O. Magana)
05/16/2016 Feather River West Levee Improvement Project--Levee currently under construction.06/10/2015 WS headwall is still damaged and no repairs were made to this pipe. Looks like the SBFCA project skipped over this area so pipe was not replaced as it was listed to be.12/29/2014 Same as last inspection.05/19/2014 Same as last inspection.11/06/2013 Same as last inspection.05/13/2013 SBFCA project recommends replacing with accordance to title 23.05/07/2013 Same as last inspection, however exposed rebar on WS headwall does not impede structure performance.10/31/2012 WS headwall rebar exposed. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA07_2010_a_0051 however, no issue listed. (DWR UCIP - O. Magana)
FIELD_STRUCT_DESC: 10-inch polyvinyl chloride (PVC) pipe encased in a 12-inch corrugated metal irrigation pipe through the levee, 7 feet below the crown. Concrete U-shaped headwall at the waterside (WS) toe. Concrete headwall and slide gate on the landside (LS). Concrete weir in the canal. (Existing 10-inch PVC pipe and 12-inch corrugated metal [concrete indicated in record drawings] irrigation pipe crossing remained during the Feather River West Levee Improvements, Project D). [Additional Reference(s): DWR Levee Log, 2005. Sutter Butte Flood Control Agency (SBFCA) Feather River West Levee Project, Volume 4 of 6 (Project D) Feather River West Levee Improvement Plans Sta 1765+00 to 2368+26, 2016, Volume 4-SBFCA_Record_Drawings_Project D_2017.05.16.pdf, Drawing No. C-101].

Photo 1 of 3 : UCIP_SP_2019_53949_77335.jpg



LS view: screw gate and concrete headwall visible on LS.

* Location		** Rating	+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	En : Enforcement	
		N : Not Inspected/Rated		
		C : Corrected		
		A/W : Acceptable but Monitor & Maintain		

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	04/04/2019 04/04/2019	Sterling York

FS Date: 5/7/2019 12:41:21 PM

LM Start	1.72	Rating **	M	Issue No.	72 (cont)
LM End	1.72	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2019_53949_77336.jpg



Overview of levee crown at crossing.

LM Start	1.72	Rating **	M	Issue No.	72 (cont)
LM End	1.72	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2019_53949_77337.jpg



WS view: guardrail along the WS slope and concrete headwall visible on WS.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	04/04/2019 04/04/2019	Sterling York

LM Start	1.76	Rating **	M	Issue No.	73
LM End	1.76	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.334868 °	39.334868 °
				-121.633773 °	-121.633773 °
DWR ID	16926				

Comment Code

Inspector Comment

FS_ID:53950
DS_ID:16926
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 05/07/2019 (O. Magana - DWR UCIP)12/07/2018 Encroachment Owner is Butte Water District c/o Mark Orme, District Manager, 735 Virginia Street, Gridley, CA 95948, 1-530-846-3100. Information obtained from the Levee_Encroachment_listing_11288.pdf obtained from SBFCA which also indicates CVFPB Permit Process - New Permit. Need to coordinate with CVFPB to determine status of permit. (O. Magana - DWR UCIP)
08/09/2017 Dual 60-inch pipes are still present--no modifications appear to have been made to this structure. No permit or owner has been identified. Need to contact owner to notify of safety issue regarding the missing covers for CMP riser. (DWR UCIP - O. Magana)08/02/2017 After reviewing record drawings it appears this crossing has remained. Project Improvements begin at Station (Sta) 1765+00 (MA0007 about LM 1.73) to Sta 2303+50 (ST0005 about LM 1.23), refer to record drawings for the Feather River West Levee Improvement Plans Station 1765+00 to 2368+26, Project D details. MA0007 project details include NO CUTOFF WALL from Sta 1765+00 (MA0007 about LM 1.73) to 1815+00 (MA0007 about LM 2.64) and LEVEE DEGRADE AND RECONSTRUCTION WITH CUT OFF WALL from Sta 1817+00 (MA0007 about LM 2.69) to Sta 2289+00, Sta 2287+00 to Sta 2290+00 (MA0007 about LM 11.60). (DWR UCIP - O. Magana)
05/16/2016 Feather River West Levee Improvement Project--Levee currently under construction.06/10/2015 Debris still present in risers and pipes were not replaced with the SBFCA project.12/29/2014 Same as last inspection.05/19/2014 Same as last inspection.11/06/2013 Same as last inspection.05/13/2013 SBFCA project recommends replacing in accordance with title 23.05/07/2013 Same debris issue as last inspection. Recommend repairing top cover to prevent falls. Wheel to open gate chained and locked so could not verify gate operation.10/31/2012 Debris inside riser could prevent slide gate from closing. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA07_2010_a_0060 however, no issues noted. (DWR UCIP - O. Magana)
FIELD_STRUCT_DESC: 1 of 2: 60-inch corrugated metal gravity drainage pipe through the levee, 12.5 feet below the crown. Slide gate in a 78-inch corrugated metal pipe (CMP) well on the waterside (WS) slope. Concrete bulkheads on both ends. Reinforced concrete spillway on the WS end. (Existing 60-inch corrugated metal gravity drainage pipe crossing remained during the Feather River West Levee Improvements, Project D). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 152, March 1957 (Station

Photo 1 of 3 : UCIP_SP_2019_53950_77346.jpg



Overview of levee crown looking upstream towards crossings.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	04/04/2019 04/04/2019	Sterling York

1+90). Sutter Butte Flood Control Agency (SBFCA) Feather River West Levee Project, Volume 4 of 6 (Project D) Feather River West Levee Improvement Plans Sta 1765+00 to 2368+26, 2016, Volume 4-SBFCA_Record_Drawings_Project D_2017.05.16.pdf, Drawing No. C-101].

FS Date: 5/7/2019 12:42:03 PM

LM Start	1.76	Rating **	M	Issue No.	73 (cont)
LM End	1.76	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2019_53950_77351.jpg



LS view: concrete headwall with dual 60-inch crossings visible from LS.

LM Start	1.76	Rating **	M	Issue No.	73 (cont)
LM End	1.76	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2019_53950_77342.jpg



LS view: view of canal looking west from crossing.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	04/04/2019 04/04/2019	Sterling York

LM Start	1.76	Rating **	M	Issue No.	74
LM End	1.76	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.334886 °	39.334886 °
				-121.633783 °	-121.633783 °
DWR ID	17011				

Comment Code

Inspector Comment

FS_ID:53951
DS_ID:17011
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 12/07/2018 Encroachment Owner is Butte Water District c/o Mark Orme, District Manager, 735 Virginia Street, Gridley, CA 95948, 1-530-846-3100. Information obtained from the Levee_Encroachment_listing_11288.pdf obtained from SBFCA which also indicates CVFPB Permit Process - New Permit. Need to coordinate with CVFPB to determine status of permit. (O. Magana - DWR UCIP) 08/09/2017 Dual 60-inch pipes are still present--no modifications appear to have been made to this structure. No permit or owner has been identified. Need to contact owner to notify of safety issue regarding the missing covers for CMP riser. (DWR UCIP - O. Magana) 08/02/2017 After reviewing record drawings it appears this crossing has remained. Project Improvements begin at Station (Sta) 1765+00 (MA0007 about LM 1.73) to Sta 2303+50 (ST0005 about LM 1.23), refer to record drawings for the Feather River West Levee Improvement Plans Station 1765+00 to 2368+26, Project D details. MA0007 project details include NO CUTOFF WALL from Sta 1765+00 (MA0007 about LM 1.73) to 1815+00 (MA0007 about LM 2.64) and LEVEE DEGRADE AND RECONSTRUCTION WITH CUT OFF WALL from Sta 1817+00 (MA0007 about LM 2.69) to Sta 2289+00, Sta 2287+00 to Sta 2290+00 (MA0007 about LM 11.60). (DWR UCIP - O. Magana) 05/16/2016 Feather River West Levee Improvement Project--Levee currently under construction. 06/10/2015 Debris still present inside riser and pipe was not replaced with the SBFCA project. 12/29/2014 Same as last inspection. 05/19/2014 Same as last inspection. 11/06/2013 Same as last inspection. 05/13/2013 SBFCA project recommends replacing in accordance with title 23.05/07/2013 Same as last inspection. Recommend constructing cover to prevent falls. Wheel to operate gate chained and locked so gate operation could not be verified. 10/31/2012 no cover; debris inside riser could prevent slide gate from closing. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA07_2010_a_0060 however, no issues noted. (DWR UCIP - O. Magana) FIELD_STRUCT_DESC: 2 of 2: 60-inch corrugated metal gravity drainage pipe through the levee, 12.5 feet below the crown. Slide gate in a 78-inch corrugated metal pipe (CMP) well on the waterside (WS) slope. Concrete bulkheads on both ends. Reinforced concrete spillway on the WS end. (Existing 60-inch corrugated metal gravity drainage pipe crossing remained during the Feather River West Levee Improvements, Project D). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 152, March 1957 (Station 1+90). Sutter Butte Flood Control Agency (SBFCA) Feather River West

Photo 1 of 3 : UCIP_SP_2019_53951_77352.jpg



Overview of levee crown looking upstream towards crossings.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	04/04/2019 04/04/2019	Sterling York

Levee Project, Volume 4 of 6 (Project D) Feather River West Levee Improvement Plans Sta 1765+00 to 2368+26, 2016, Volume 4-SBFCA_Record_Drawings_Project D_2017.05.16.pdf, Drawing No. C-101].
FS Date: 5/7/2019 12:42:41 PM

LM Start	1.76	Rating **	M	Issue No.	74 (cont)
LM End	1.76	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2019_53951_77357.jpg



LS view: concrete headwall with dual 60-inch crossings.

LM Start	1.76	Rating **	M	Issue No.	74 (cont)
LM End	1.76	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2019_53951_77358.jpg



LS view: canal located on LS, photo taken from levee crown looking west.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	04/04/2019 04/04/2019	Sterling York

LM Start	2.11	Rating **	C	Issue No.	13
LM End	2.27	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.339486 °	39.341623 °
				-121.631695 °	-121.630531 °
DWR ID	DWR_MA0007_01_f_2018_13				
Comment Code					
PR : Prunings					
Inspector Comment					
Downed orchard trees on the levee slope have been removed, Spring 2019.					

No Photos

LM Start	4.39	Rating **	M	Issue No.	39
LM End	5.35	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.366547 °	39.380071 °
				-121.647523 °	-121.650558 °
DWR ID	DWR_MA0007_01_s_2012_39				
Comment Code					
DT : Ditch					
Inspector Comment					
A landside irrigation ditch is located at the levee toe.					

Photo 1 of 1 : SP_2019_MA0007_200_39_20190305_00003.jpg



View looking upstream landside at an irrigation ditch at the levee toe, Fall 2018.

LM Start	9.65	Rating **	U	Issue No.	45
LM End	9.65	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.416384 °	39.416384 °
				-121.634503 °	-121.634503 °
DWR ID	DWR_MA0007_01_s_2012_45				
Comment Code					
BU : Building					
Inspector Comment					
A trailer is still located at the landside levee toe, no permit found.					

Photo 1 of 1 : SP_2019_MA0007_200_45_20190305_00005.jpg



This photo shows a building at the landside toe, no permit found.

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	04/04/2019 04/04/2019	Sterling York

LM Start	11.49	Rating **	M	Issue No.	40
LM End	11.49	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.437454 °	39.437454 °
				-121.646024 °	-121.646024 °
DWR ID	DWR_MA0007_01_s_2016_40				
Comment Code					
BU : Building					
Inspector Comment					
No permit was found for this structure.					

Photo 1 of 1 : SP_2019_MA0007_200_40_20190305_00004.jpg



View showing structure on the waterside looking downstream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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